

WEST Search History

[Hide Items](#)[Restore](#)[Clear](#)[Cancel](#)

DATE: Monday, March 21, 2005

Hide?	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
		<i>DB=USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L3	L2	48
<input type="checkbox"/>	L2	L1 and proton conducting membrane	48
<input type="checkbox"/>	L1	polymer electrolyte and (sulfonated or sulphonated polymer)	498

END OF SEARCH HISTORY

Hit List

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 10 of 48 returned.

☐ 1. Document ID: US 6864006 B2

Using default format because multiple data bases are involved.

L3: Entry 1 of 48

File: USPT

Mar 8, 2005

US-PAT-NO: 6864006

DOCUMENT-IDENTIFIER: US 6864006 B2

TITLE: Proton-conducting membrane, method for producing the same, and fuel cell using the same

DATE-ISSUED: March 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Honma; Itaru	Tsukuba-shi, Ibaraki-ken, 305-8568			JP
	Tsukuba			JP
Nomura; Shigeki	Tsukuba			JP
Sugimoto; Toshiya	Tsukuba			JP
Nishikawa; Osamu				

US-CL-CURRENT: 429/33; 429/306, 429/313, 429/317

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
----------------------	-----------------------	--------------------------	-----------------------	------------------------	--------------------------------	----------------------	---------------------------	---------------------------	-----------------------------	------------------------	----------------------	------------------------

☐ 2. Document ID: US 6863838 B2

L3: Entry 2 of 48

File: USPT

Mar 8, 2005

US-PAT-NO: 6863838

DOCUMENT-IDENTIFIER: US 6863838 B2

TITLE: Zwitterionic imides

DATE-ISSUED: March 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hamrock; Steven Joseph	Stillwater	MN		

US-CL-CURRENT: 252/62.2; 429/200, 546/249, 548/146, 564/82

h e b b g e e f e e ef b e

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 3. Document ID: US 6841285 B2

L3: Entry 3 of 48

File: USPT

Jan 11, 2005

US-PAT-NO: 6841285

DOCUMENT-IDENTIFIER: US 6841285 B2

TITLE: Impregnation of ion-exchange membranes to improve electrochemical fuel cell performance

DATE-ISSUED: January 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wilkinson; David P.	North Vancouver			CA
Roberts; Joy A.	Coquitlam			CA
Jia; Nengyou	Richmond			CA
Yuh; Eagranie	Vancouver			CA
Knights; Shanna D.	Burnaby			CA
St-Pierre; Jean	Vancouver			CA

US-CL-CURRENT: 429/33; 429/13, 429/315, 429/316, 521/27, 521/32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 4. Document ID: US 6780935 B2

L3: Entry 4 of 48

File: USPT

Aug 24, 2004

US-PAT-NO: 6780935

DOCUMENT-IDENTIFIER: US 6780935 B2

TITLE: Fluoropolymer resins containing ionic or ionizable groups and products containing the same

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hedhli; Lotfi	King of Prussia	PA		
Billon; Laurent	King of Prussia	PA		

US-CL-CURRENT: 525/191; 525/197, 525/199, 525/212, 525/221, 525/222, 525/287

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 5. Document ID: US 6759441 B1

L3: Entry 5 of 48

File: USPT

Jul 6, 2004

US-PAT-NO: 6759441

DOCUMENT-IDENTIFIER: US 6759441 B1

TITLE: Acid-base polymer blends and their use in membrane processes

DATE-ISSUED: July 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kerres; Jochen	Ostfildern			DE
Cui; Wei	Stuttgart			DE

US-CL-CURRENT: 521/27; 521/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	---------

☐ 6. Document ID: US 6723757 B1

L3: Entry 6 of 48

File: USPT

Apr 20, 2004

US-PAT-NO: 6723757

DOCUMENT-IDENTIFIER: US 6723757 B1

TITLE: Engineering ionomeric blends and engineering ionomeric blend membranes

DATE-ISSUED: April 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kerres; Jochen	Ostfildern			DE
Ullrich; Andreas	Esslingen			DE
Haring; Thomas	Stuttgart			DE

US-CL-CURRENT: 521/27; 521/28, 525/203, 525/204, 525/327.1, 525/340, 525/344

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	---------

☐ 7. Document ID: US 6716548 B1

L3: Entry 7 of 48

File: USPT

Apr 6, 2004

US-PAT-NO: 6716548

DOCUMENT-IDENTIFIER: US 6716548 B1

TITLE: Composite electrolyte membranes for fuel cells and methods of making same

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaliaguine; Serge	Lac St-Charles			CA
Mikhailenko; Sergei	Ste-Foy			CA
Zaidi; S. M. Javak	Quebec			CA

US-CL-CURRENT: 429/33; 429/317

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	----------	-------------	--------	------	---------

☐ 8. Document ID: US 6653596 B2

L3: Entry 8 of 48

File: USPT

Nov 25, 2003

US-PAT-NO: 6653596

DOCUMENT-IDENTIFIER: US 6653596 B2

TITLE: Fuel cell operated welder

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blankenship; George D.	Chardon	OH		

US-CL-CURRENT: 219/137PS; 219/130.1, 429/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	----------	-------------	--------	------	---------

☐ 9. Document ID: US 6632847 B1

L3: Entry 9 of 48

File: USPT

Oct 14, 2003

US-PAT-NO: 6632847

DOCUMENT-IDENTIFIER: US 6632847 B1

TITLE: Polymer composition, membrane containing said composition, method for the production and uses thereof

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Soczka-Guth; Thomas	Schelklingen			DE
Frank; Georg	Tubingen			DE
Baurmeister; Jochen	Eckernforde			DE
Pawlik; Jurgen	Frankfurt			DE
Knauf; Rudiger	Aull			DE

US-CL-CURRENT: [521/27](#); [429/12](#), [429/27](#), [429/46](#), [521/33](#), [521/37](#), [528/125](#), [528/220](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

☐ 10. Document ID: US 6620210 B2

L3: Entry 10 of 48

File: USPT

Sep 16, 2003

US-PAT-NO: 6620210

DOCUMENT-IDENTIFIER: US 6620210 B2

TITLE: Method of washing laundry using ozone to degrade organic material

DATE-ISSUED: September 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murphy; Oliver J.	Bryan	TX		
Hitchens; G. Duncan	Bryan	TX		

US-CL-CURRENT: [8/149.1](#); [8/147](#), [8/149.2](#), [8/158](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Term	Documents
2.USPT,USOC,EPAB,JPAB,DWPI,TDBD.	48
(L2).USPT,USOC,EPAB,JPAB,DWPI,TDBD.	48

Display Format:

Change Format

[Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 31 through 40 of 48 returned.

☐ 31. Document ID: US 6110616 A

Using default format because multiple data bases are involved.

L3: Entry 31 of 48

File: USPT

Aug 29, 2000

US-PAT-NO: 6110616

DOCUMENT-IDENTIFIER: US 6110616 A

TITLE: Ion-conducting membrane for fuel cell

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sheikh-Ali; Bashir Musse	Troy	NY		
Wnek; Gary Edmund	Midlothian	VA		

US-CL-CURRENT: [429/33](#); [252/62.2](#), [264/83](#), [429/189](#), [429/30](#), [429/309](#), [429/314](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
----------------------	-----------------------	--------------------------	-----------------------	------------------------	--------------------------------	----------------------	---------------------------	---------------------------	-----------------------------	------------------------	---------------------	-------------------------

☐ 32. Document ID: US 6059943 A

L3: Entry 32 of 48

File: USPT

May 9, 2000

US-PAT-NO: 6059943

DOCUMENT-IDENTIFIER: US 6059943 A

TITLE: Composite membrane suitable for use in electrochemical devices

DATE-ISSUED: May 9, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murphy; Oliver J.	Bryan	TX		
Cisar; Alan J.	Cypress	TX		

US-CL-CURRENT: [204/296](#); [429/41](#), [429/42](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
----------------------	-----------------------	--------------------------	-----------------------	------------------------	--------------------------------	----------------------	---------------------------	---------------------------	-----------------------------	------------------------	---------------------	-------------------------

☐ 33. Document ID: US 6010798 A

L3: Entry 33 of 48

File: USPT

Jan 4, 2000

US-PAT-NO: 6010798

DOCUMENT-IDENTIFIER: US 6010798 A

TITLE: PEM fuel cell

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hammerschmidt; Albert	Erlangen			DE
Domke; Wolf-Dieter	Rottenbach			DE
Nolscher; Christoph	Nurnberg			DE
Suchy; Peter	Erlangen			DE

US-CL-CURRENT: 429/30; 429/33, 429/41, 429/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 34. Document ID: US 5972196 A

L3: Entry 34 of 48

File: USPT

Oct 26, 1999

US-PAT-NO: 5972196

DOCUMENT-IDENTIFIER: US 5972196 A

TITLE: Electrochemical production of ozone and hydrogen peroxide

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murphy; Oliver J.	Bryan	TX		
Hitchens; G. Duncan	Bryan	TX		

US-CL-CURRENT: 205/466; 204/157.15, 205/626

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 35. Document ID: US 5916505 A

L3: Entry 35 of 48

File: USPT

Jun 29, 1999

US-PAT-NO: 5916505

DOCUMENT-IDENTIFIER: US 5916505 A

TITLE: Process of making a membrane with internal passages

DATE-ISSUED: June 29, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cisar; Alan J.	Cypress	TX		
Gonzalez-Martin; Anuncia	College Station	TX		
Hitchens; G. Duncan	Bryan	TX		
Murphy; Oliver J.	Bryan	TX		

US-CL-CURRENT: 264/85; 264/129, 264/308, 264/313, 264/340, 264/343, 427/307,
427/393.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCD	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

☐ 36. Document ID: US 5861222 A

L3: Entry 36 of 48

File: USPT

Jan 19, 1999

US-PAT-NO: 5861222

DOCUMENT-IDENTIFIER: US 5861222 A

TITLE: Gas diffusion electrode for membrane fuel cells and method of its production

DATE-ISSUED: January 19, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Andreas	Frankfurt			DE
Wendt; Hartmut	Dieburg			DE
Zuber; Ralf	Grossostheim			DE

US-CL-CURRENT: 429/42; 106/1.21, 106/122, 204/282, 204/283, 204/284, 204/296,
429/40, 429/41, 429/44, 502/101, 502/22, 502/27, 502/4, 521/27, 521/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCD	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

☐ 37. Document ID: US 5795496 A

L3: Entry 37 of 48

File: USPT

Aug 18, 1998

US-PAT-NO: 5795496

DOCUMENT-IDENTIFIER: US 5795496 A

TITLE: Polymer material for electrolytic membranes in fuel cells

DATE-ISSUED: August 18, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yen; Shaio-Ping S.	Altadena	CA		

Narayanan; Sekharipuram R.	St. Altadena	CA
Halpert; Gerald	Pasadena	CA
Graham; Eva	St. Pasadena	CA
Yavrouian; Andre	Glendale	CA

US-CL-CURRENT: [252/62.2](#); [252/500](#), [252/519.33](#), [252/521.3](#), [429/33](#), [521/27](#), [521/30](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 38. Document ID: US 5770033 A

L3: Entry 38 of 48

File: USPT

Jun 23, 1998

US-PAT-NO: 5770033

DOCUMENT-IDENTIFIER: US 5770033 A

TITLE: Methods and apparatus for using gas and liquid phase cathodic depolarizers

DATE-ISSUED: June 23, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murphy; Oliver J.	Bryan	TX		
Hitchens; G. Duncan	Bryan	TX		

US-CL-CURRENT: [205/464](#); [205/466](#), [205/468](#), [205/626](#), [205/633](#), [205/635](#), [205/636](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 39. Document ID: US 5677074 A

L3: Entry 39 of 48

File: USPT

Oct 14, 1997

US-PAT-NO: 5677074

DOCUMENT-IDENTIFIER: US 5677074 A

TITLE: Gas diffusion electrode

DATE-ISSUED: October 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Serpico; Joseph M.	East Greenbush	NY		
Ehrenberg; Scott G.	Fishkill	NY		
Wnek; Gary E.	Latham	NY		
Tangredi; Timothy N.	Palm Harbor	FL		

US-CL-CURRENT: [429/43](#); [429/33](#), [429/42](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 40. Document ID: US 5635039 A

L3: Entry 40 of 48

File: USPT

Jun 3, 1997

US-PAT-NO: 5635039

DOCUMENT-IDENTIFIER: US 5635039 A

TITLE: Membrane with internal passages to permit fluid flow and an electrochemical cell containing the same

DATE-ISSUED: June 3, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cisar; Alan J.	Cypress	TX		
Gonzalez-Martin; Anuncia	College Station	TX		
Hitchens; G. Duncan	Bryan	TX		
Murphy; Oliver J.	Bryan	TX		

US-CL-CURRENT: 204/252; 204/282, 204/290.12, 204/290.14, 204/296, 429/30, 429/33, 429/40, 429/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Term	Documents
2.USPT,USOC,EPAB,JPAB,DWPI,TDBD.	48
(L2).USPT,USOC,EPAB,JPAB,DWPI,TDBD.	48

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

10,804 228

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	"6555626"	USPAT	OR	OFF	2005/03/21 13:42
L2	3	(goto/.in. and polyimide and electrolyte)	USPAT	OR	OFF	2005/03/21 13:44
L3	3	((("6720106") or ("6770393") or ("6767664")).PN.	USPAT	OR	OFF	2005/03/21 13:46
L4	2	((("6084053") or ("6300465")).PN.	USPAT	OR	OFF	2005/03/21 13:50
L5	1758381	polymer electrolyte and (thiophene or thiazole or azole)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 13:52
L6	26034	5 and (sulfonated or sulphonated)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 13:53
L7	36	6 and 528/373.ccls.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 13:56
L8	65061	5 and (phenylene or arylene)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 13:58
L9	57	8 and 528/390.ccls.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 13:59